

February 4, 2011

**COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF GENERAL SERVICES  
DIVISION OF PURCHASING AND SUPPLY  
SPECIFICATIONS FOR  
MACHINE SHOP LAB EQUIPMENT**

**PURPOSE:**

The purpose of this specification is to establish a purchase requirement for machine shop equipment for use by the Wytheville Community College (WCC), the Virginia Community College System (VCCS), Agencies, and other Public Bodies of the Commonwealth of Virginia, for instructional use.

The following specifications are intended to define the specific proprietary items required. The use of brand names in this specification is meant to be restrictive as to brand name or manufacturer. It is intended to define the specific items of equipment required for a specific VCCS course of study.

**SCOPE:**

This specification describes a variety of machine tools capable of supporting the curriculum requirements of the VCCS Machine Lab course of learning, and to provide the machine shop equipment in the quantities indicated.

**BIDDER REQUIREMENTS:**

Bidders/Vendors proposing equipment shall submit bids for their products, and may provide pricing in the lines next to each specification item. Bidder must provide a price for machine(s), all inclusive items, and delivery at the "TOTAL PRICE..." line of each machine specification. Technical data may be required during bid evaluation. The Commonwealth reserves the right to obtain technical data and to request clarification when deemed necessary. Failure on the part of the Bidder/Vendor to provide all requested documentation may be cause to reject the bid/request as non-responsive.

Bidder/Vendor shall provide delivery time after receipt of order (ARO) on the line opposite "DELIVERY TIME ARO" for each machine quoted. Delivery is to be made to Wytheville Community College, 1000 East Main Street, Wytheville, VA 24382.

The vendor shall provide items in the quantities indicated, for equipment that can be supplied, on a line item basis. Bidder may quote on providing any of the machines, or on all items in the specifications as a total package. Bidder shall also be responsible to provide delivery and services as described for each machine supplied.

The products offered in answer to this request for bid must be new and unused current production models of the equipment required. No demonstrator or previously used product will be accepted, and offering of such a product will be cause for bid rejection.

Products provided must include the maximum available warranty to provide no-cost protection to the Commonwealth for correction or replacement as needed for defects in manufacturing, assembly, or parts. Provide details of warranty with the bid response.

## **SPECIFICATION FOR MACHINE SHOP PROGRAM COURSE EQUIPMENT:**

### **1: Quantity = (2): Coordinate Measuring Machine:**

#### **Brown & Sharpe/Tesa Micro-Hite 3D REFLEX with TESASTAR and Fine Adjust Controls**

Provide the following B&S/Tesa items:

PART NUMBER	ITEM DESCRIPTION	PRICE
03939042	Micro-Hite 3D Reflex with Tesastar and Fine Adjust	_____
03939020	TESASTAR probe	_____
03969040	Kit of styli for M3 thread	_____
03960170	Control panel equipped with REFLEX software	_____
03969006	PCMCIA memory card	_____
03969011	Reference sphere	_____
82-703-1	Granite measuring table	_____
049746	Air filter and regulator	_____
03969001	Cabinet with table top	_____
MGT-1 HP	Wireless black and white laser printer	_____
	Installation and set-up of (2) new units	_____
Vendor shall be responsible for delivery, setting the machine in place, setting it up, and demonstrating that it is fully operational.		
Shipping/delivery as specified		_____

TOTAL PRICE FOR (2) MACHINES & ALL ACCESSORIES..... \$ \_\_\_\_\_

DELIVERY TIME ARO: \_\_\_\_\_

### **2: Quantity = (2): Calibration of existing equipment:**

Provide the following service:

ITEM DESCRIPTION	PRICE
Provide calibration to ISO/IEC 17025 Standard Accredited by A2LA of (2) existing Micro-Hite units in the Wytheville Community College Machine Lab, to include any alignments or adjustments needed.	

TOTAL PRICE FOR CALIBRATION AND ADJUSTMENTS (2) UNITS \$ \_\_\_\_\_

### **3: Quantity = (1): Chevalier Surface Grinder:**

Provide the following surface grinder and accessories:

PART NUMBER	ITEM DESCRIPTION	PRICE
FSG-2A618	Chevalier 6"x18" Hydraulic Surface Grinder with cast iron base	_____
DP700	Newall two axis DRO installed	_____
	Diamond dresser with diamond (table type)	_____
	One grinding wheel and hub	_____
	Halogen machine lamp	_____
	Splash guard and nozzle	_____
	Automatic lubricator	_____
	Balancing arbor	_____
	Leveling screw set and pads	_____

	Tool box and tools	_____
	Operating manual and parts list	_____
B09-0102	Chevalier 6-18 Permanent magnetic chuck	_____
BL09-0606-1	O.S. Walker LBP Permanent magnetic chuck	_____
B23-0905	Chuck control	_____
B13-0101	Parallel dressing attachment	_____
B17-0110	Coolant system (11.1 gallon)	_____
B19-0102	Splash guard and nozzle	_____
B05-0101	Extra wheel flange and weights	_____
Vendor shall be responsible for delivery, setting the machine in place, setting it up, and demonstrating that it is fully operational. Vendor shall also provide training.		
	Shipping/delivery as specified	_____
TOTAL PRICE FOR (1) MACHINE & ALL ACCESSORIES.....		\$_____
DELIVERY TIME ARO: _____		

#### 4: Quantity = (1): CNC Knee Type Vertical Milling Machine:

Provide the following Southwest Industries CNC vertical knee type milling machine and accessories:

ITEM DESCRIPTION	PRICE
Southwestern Industries TRAK-K3 vertical knee type milling machine, with 2-axis Proto TRAK SMX-2 control, 3HP, 230 Volt, 3 phase, 60 Hz 50"x 10"table, 5/8"x 3"x 2-1/2" T-slots	
Travel data: Table = 32", saddle = 16", knee = 16", ram = 15", Quill = 5"	
Quill: 3-3/8" diameter, R8 taper	
Advanced Features Option	
Networking / Memory Option	
DXF File Converter Option	
P-TRAK RSG Remote Stop/Go Switch	
Lyndex 810-012 R-8 collet set (12 pcs.)	
Automatic Power Draw Bar Installed	
Kurt D675 Anglock Vise	
Bijur Automatic Lubrication Installed	
LS02 Limit Switch Option	
Vendor shall be responsible for delivery, setting the machine in place, setting it up, and demonstrating that it is fully operational. Vendor shall also provide training.	
Shipping/delivery as specified	
TOTAL PRICE FOR (1) MACHINE & ALL ACCESSORIES.....	\$
DELIVERY TIME ARO:	

#### 5: Quantity = (2): Optical Comparator:

Provide the following Master View optical comparators and accessories:

ITEM DESCRIPTION	PRICE
MV-14-P Master-View Optical Comparator	_____

NV-20 Fagor two-axis digital readout and accessories	_____
Linear Compensation	_____
Inch / mm Conversion	_____
5 Micron glass scales (.0002" resolution)	_____
SPC output from scales that is compatible with most SPC systems	_____
High capacity 4"x 8" travel stage with 4/5" x 9" work surface	_____
10X lens system	_____
Overlay chart clips	_____
Vernier readings to 5 minutes of arc	_____
Ball way construction to handle loads up to 100 pounds	_____
Single long life tungsten/halogen light source	_____
3-position rotary switch selects profile, surface, or combination surface/profile illumination modes	_____
Rotary frosted glass screen with 90 degree cross lines and 360 degree protractor rim	_____
Heavy duty monorail-type welded steel frame	_____
MV-14 Hood	_____
MV-14 Cabinet base	_____
MV-14-CTR Stage centers	_____
MV-14-VB Vee-block	_____
RRV-473 Vise	_____
Vendor will be responsible for delivering and setting up of machine once put in place. WCC will be responsible for moving machine from loading dock into machine shop. WCC will then contact vendor to have the machine set up. Vendor will be responsible for machine setup. Shipping/delivery as specified	_____
TOTAL PRICE FOR (2) OPTICAL COMPARATORS & ACCESSORIES	\$ _____
DELIVERY TIME ARO: _____	

**6: Total package containing all items in the specification:**

Use this space if the bidder chooses to supply all items in this specification in lieu of one or more selected items. Provide all items and accessories in the specification as a total package to be delivered to Wytheville Community College:

ITEM DESCRIPTION	PRICE
TOTAL PRICE FOR ALL SPECIFICATION ITEMS INCLUDING DELIVERY SERVICES AS SPECIFIED FOR EACH MACHINE.....	\$ _____

DELIVERY TIME ARO FOR ALL ITEMS AND ACCESSORIES TO BE RECEIVED AT WCC: \_\_\_\_\_